From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY					ERATION TRE	De Clerca, Brants & Partne - RECEIVED -	
To:			AL FILLINIII VALLE LA	AWINING ACTIONS,	7	DCT 14 NOV. 2003	
				!		M 61	
BRA		s, Joi	han, Philippe,	e-		10.02.04	
De C	Clerc	q, Bı	rants & Partners		v	VRITTEN OPINION	
B-98	30 S	Sint-N	eef 10 a Martens-Latem			(PCT Rule 66)	
BELO			, , , , , , , , , , , , , , , , , , ,			(i O i i i i i i i i i i i i i i i i i i	
					Date of mailing		
					(day/month/year)	10.11.2003	
Applica VIB-0			ent's file reference		REPLY DUE	within 3 month(s) from the above date of mailing	
Interna PCT/I			lication No. 229	International filing date (0 07.02.2003			
			ent Classification (IPC) or b .61K39/395	ooth national classification	and IPC	· · · · · · · · · · · · · · · · · · ·	
	Applicant VLAAMS INTERUNIVERSITAIR INSTITUUT VOOR et al.						
1. 7	This written opinion is the first drawn up by this International Preliminary Examining Authority.						
2. 1	This	opini	on contains indications	relating to the following	items:		
ı	1	\boxtimes	Basis of the opinion				
1	li		Priority				
ł	Н	\boxtimes	Non-establishment of	opinion with regard to r	novelty, inventive step	and industrial applicability	
1,	V		Lack of unity of inventi			•	
V	V	\boxtimes	Reasoned statement u	under Rule 66.2(a)(ii) wi ions supporting such sta	ith regard to novelty, in	inventive step or industrial applicability;	
V	ŹΙ	□ .	Certain documents cité		atomorn		
V	/II			international application	1		
٧	/ III			on the international appl			
3. T	he a	ıpplic	ant is hereby invited to	reply to this opinion.			
W	Vhen	?	See the time limit indicate request this Authority to g	ed above. The applicant magrant an extension, see Ru	ay, before the expiration le 66.2(d).	of that time limit,	
н	low?		By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.				
Also: For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6.				ee Rule 66.4 bis.			
If	no re	eply i	s filed, the international pr	eliminary examination rep	ort will be established on	n the basis of this opinion.	
4. Ti	The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 08.06.2004						
			address of the internationa		Authorized Officer		



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Irion, A

Formalities officer (incl. extension of time limits) Digiusto, M Telephone No. +49 89 2399-8162





1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed",

	De	Description, Pages						
	1-	23	as originally filed					
	Claims, Numbers							
	1-:	3	as originally filed					
S	equ	ence listing part of t	he description, pages:					
1	-9, a	as originally filed						
2	2. With regard to the language, all the elements marked above were available or furnished to this language in which the international application was filed, unless otherwise indicated under this							
	Th	ese elements were av	vailable or furnished to this Authority in the following language: , which is:					
		the language of pub	anslation furnished for the purposes of the international search (under Rule 23.1(b)). elication of the international application (under Rule 48.3(b)). anslation furnished for the purposes of international preliminary examination (under .3).					
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
	\boxtimes	contained in the inte	rnational application in written form.					
	\boxtimes	filed together with th	e international application in computer readable form.					
		furnished subseque	ntly to this Authority in written form.					
		furnished subseque	ntly to this Authority in computer readable form.					
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.					
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sh opinion.)	eet containing such amendments must be referred to under item 1 and annexed to this					
6.	Add	itional observations, i	f necessary:					

III. Non-establishment of opinion with regard to novelty,	y, inventive step and industrial applicability
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1	. The	e questions whether the claim vious), or to be industrially app	ed invention appears to be novel, to involve an inventive step (to be non- licable have not been and will not be examined in respect of:
		the entire international applic	eation,
	\boxtimes	claims Nos. 1-3 (N, IS, IA)	
		because:	
	⊠	the said international applica does not require an internation	tion, or the said claims Nos. 3 (IA) relate to the following subject matter whic onal preliminary examination (specify):
		see separate sheet	
	⊠	the description, claims or dra so unclear that no meaningfu	wings <i>(indicate particular elements below)</i> or said claims Nos. 3 (N, IS,IA) and opinion could be formed <i>(specify)</i> :
		see separate sheet	
	⊠	the claims, or said claims No meaningful opinion could be	s. 1-2 (N, IS, IA) are so inadequately supported by the description that no formed.
		no international search report	has been established for the said claims Nos.
2. A written opinion cannot be drawn due to the failure of the nucleotide and/or amino comply with the Standard provided for in Annex C of the Administrative Instruction			due to the failure of the nucleotide and/or amino acid sequence listing to
	<u> </u>	the written form has not been	furnished or does not comply with the Standard.
		the computer readable form h	as not been furnished or does not comply with the Standard.
٧.	Rea app	soned statement under Rule licability; citations and expl	e 66.2(a)(ii) with regard to novelty, inventive step or industrial anations supporting such statement
1.	State	ement	
	Nove	elty (N)	Claims
	Inve	ntive step (IS)	Claims
	Indu	strial applicability (IA)	Claims .
2.	Citat	ions and explanations	
	600	sanarata sheet	

WRITTEN OPINION SEPARATE SHEET



Item III

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III.1 With respect to claims 1 and 2

Claims 1 and 2 do not meet the requirements of Article 5 and 6 PCT in that the matter for which protection is sought is not clearly defined. The claims attempt to define the subject-matter in terms of the result to be achieved, namely the inhibition of the expression and/or activity of prominin-1, which merely amounts to a statement of the underlying problem. Moreover, said claims are not supported by the description as required by Article 6 PCT, as their scope is broader than justified by the description.

Due to the severe objections concerning clarity, support and disclosure by the description an examination of said claims in their present form is not possible (see also III.2-III.5).

III.2 With respect to claim 1

The term "molecule" is defined by the result to be achieved. No information about the chemical nature of said molecule is given. Therefore, said claim is not supported by the description, as its scope is broader than justified by the description. Furthermore. claim 1 does not meet the requirements of Article 5 PCT in that the application as filed neither disclose a method to measure the activity of prominin-1 nor the activity itself. Moreover, the activity of prominin-1 does not appear to be known at all.

III.3 With respect to claim 2

- The term " a small molecule" used in claim 2 is vague and unclear and leaves the reader in doubt as to the meaning of the technical feature to which it refers, thereby rendering the definition of the subject-matter of said claim unclear (Article 6 PCT).
- The terms "an antibody", "an RNA aptamer", "a peptide", "a ribozyme", "anti-sense b. nucleic acids" and "siRNA" are not supported by the description. No single example of said molecules showing the alleged technical feature, i.e. inhibition of the expression or activity of prominin 1, is given. Therefore, claim 2 does not meet the requirements of Article 5 and 6 PCT.

III.4 With respect to claim 3

Claim 3 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(i) PCT).

WRITTEN OPINION SEPARATE SHEET

Moreover, during the regional phase, present claim 3 could be in conflict with Article 53(a) EPC, since present claim 3 encompasses testing the "molecules" in humans.

III.5 With respect to claim 3

The subject-matter of claim 3 does not meet the requirements of Article 6 PCT in that step 3 of the method, which is defined as a method to identify molecules that bind to prominin-1, is not related to identifying a molecule binding to prominin-1. Furthermore, the nucleic acid molecules identified do not bind the prominin-1 molecule, rather they code for proteins, which bind to prominin-1. Therefore, claim 3 is not clear.

Concluding remarks

- 1. The new claims to be filed should take account of all of the above comments.
- 2. The amendments should be filed by way of replacement pages. If handwritten amendments are submitted, they should be clearly legible.
- 3. In the reply, the parts of the application as originally filed which form a basis for the amendments should be indicated (cf. Article 34(2)(b) PCT, last sentence).